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(54) Title: STABILIZED BIODEGRADABLE NEUROTOXIN IMPLANTS

(57) Abstract: Biodegradable neurotoxin implants and methods of malting and using such implants are provided. Biodegradable neurotoxin implants include a neurotoxin, a biodegradable polymer component, and an acidity regulating component. The biodegradable polymer component is effective in controlling the release of the neurotoxin from the implant when the implant is located in a patient's body. The acidity regulating component is effective in maintaining a pH of the implant in a desired range that may be effective in stabilizing the neurotoxin as the implant biodegrades when the implant is located in a patient's body. In one embodiment, an implant includes a botulinum toxin, a biodegradable polymer, and either monomers from which a biodegradable polymer is derived or oligomers including monomeric units substantially identical to a monomer from which a biodegradable polymer is derived, or a combination of such monomers and oligomers. The oligomers and biodegradable polymer may be derived from a single type of monomer. The implants disclosed herein may be administered to a human or animal patient in which a therapeutic effect is desired for prolonged periods of time.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/033241 A1 (DONOVAN STEPHEN) 19 February 2004 (2004-02-19) page 10, right-hand column, paragraph 119 page 11, right-hand column, paragraph 130 - page 12, left-hand column, paragraph 131 page 16, right-hand column, paragraph 188 examples 1,2	1-33
A	----- US 2003/118598 A1 (HUNT TERRENCE J) 26 June 2003 (2003-06-26) page 18, right-hand column, paragraph 203 claims 1-4	1-33
A	----- WO 01/58472 A (ALLERGAN SALES, INC; HUNT, TERRENCE, J) 16 August 2001 (2001-08-16) page 24, line 22 - line 32 ----- -/--	1-33

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☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/098237 A1 (DONOVAN STEPHEN ET AL) 25 July 2002 (2002-07-25) page 8, paragraph 94 - paragraph 96 page 10, line 113 - line 117 -----	1-33

INTERNATIONAL SEARCH REPORT

Information on patent family members

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